

What is claimed is:

1. A virtual reality encounter system comprising,
a mannequin coupled to a camera for receiving a video
5 image, the camera sending the video image to a communications
network;
a processor for morphing the video image; and
a set of goggles to display a morphed video image.

10 2. The system of claim 1, wherein the processor overlays
a virtual environment over one or more portions of the video
image to form a virtual scene.

15 3. The method of claim 2, wherein the mannequin is a
humanoid robot having tactile sensors positioned along the
exterior of the robot, the sensors sending tactile signals to
a communications network; the system further including a body
suit having tactile actuators, the tactile actuators receiving
the tactile signals from the communications network.

20 4. The system of claim 3, further comprising:
motion sensors positioned throughout the body suit, the
motion sensors sending motion signals corresponding to
movements of each sensor relative to a reference point, the
25 motion signals transmitted to the communications network; and
a humanoid robot, receiving, from the communications
network, the motion signals from the motion sensors, the
motion signals from the motion sensors causing a movement of
the robot that is correlated to a movement of the body suit.

30

5. The system of claim 4, wherein the robot includes motion actuators corresponding to the motion sensors, the motion actuators causing the robot to move.

5 6. The system of claim 4, wherein the robot has life-like features, the robot comprises:

a body; and

a microphone coupled to the body, the microphone for sending audio signals to the communications network.

10 7. The system of claim 6, wherein the set of goggles further includes a transducer to render audio signals received from the microphone.

15 8. The system of claim 7, the robot is at a first location and the set of goggles is at a second location the system further comprising:

a second humanoid robot in the second location, the second robot having a second microphone and a second camera;

20 and

a second set of goggles to receive the video signals from the first camera and a second earphone to receive the audio signals from the first microphone.

25 9. The system of claim 8, wherein the communications network comprises:

a first communication gateway in the first location; and

a second communication gateway in the second location, the second processor connected to the first processor via a
30 network.

10. The system of claim 7, wherein the communications network comprises an interface having one or more channels for:

- receiving the audio signals from the microphone;
- 5 receiving the video image from the camera;
- sending the audio signals to the set of goggles; and
- sending the audio signals to the transducer.

11. The system of claim 7, wherein the body includes an eye socket and the camera is positioned in the eye socket.

12. The system of claim 7, wherein the body includes an ear canal and the microphone is positioned within the ear canal.

13. The system of claim 1, wherein the set of goggles, comprises a receiver to receive the morphed video image.

14. The system of claim 6, wherein the robot comprises a transmitter to wirelessly send the audio signals, the tactile signals, the motion signals and the video image to the communications network.

15. A method of having a virtual encounter, comprising:
25 receiving a video image at a camera coupled to a mannequin, the camera sending the video image to a communications network;
morphing the video image; and
rendering a morphed video image using a set of goggles.

30

16. The method of claim 15, further comprising:

overlaying a virtual environment over one or more portions of the video image to form a virtual scene.

17. The method of claim 16, wherein the mannequin is a humanoid robot and further comprising:

sending tactile signals from the humanoid robot to a communications network, the tactile sensors positioned along the exterior of the robot; and

receiving the tactile signals from the communications network at a body suit having tactile actuators.

18. The method of claim 17, further comprising:

sending motion signals from motion sensors positioned throughout the surface of a human, the motion signals corresponding to movements of each sensor relative to a reference point, the motion signals being transmitted to a communications network;

receiving, at the humanoid robot, the motion signals sent by the motion sensors; and

causing a movement of the robot that is correlated to a movement of the human based on the motion signals received from the motion sensors.

19. The method of claim 18, wherein receiving comprises

receiving motion signals from the motion sensors at corresponding motion actuators coupled to the robot, causing a movement comprises the motion actuators causing the robot to move.

20. The method of claim 16, further comprising:

sending audio signals over the communications network,
the audio signals being produced from a microphone coupled to
the robot; and

transducing the audio signals received from the
5 communications network using a transducer embedded in the set
of goggles.

21. The method of claim 20, further comprising:

sending audio signals to the communications network from
10 a second microphone coupled to a second robot having life-like
features;

sending a second video image to the communications
network from a second camera coupled to the second mannequin;

rendering the second image received from the
15 communications network onto a monitor coupled to a second set
of goggles; and

transducing the audio signals received from the
communications network using a second transducer embedded in
the second set of goggles.

20

22. The method of claim 20, wherein the robot includes
an eye socket and the camera is positioned in the eye socket.

23. The method of claim 20, wherein the robot includes
25 an ear canal and further comprising positioning the microphone
within the ear canal.

24. The method of claim 20, wherein the set of goggles,
comprises a receiver to receive the morphed video image.

30

25. The method of claim 20, wherein the robot further comprises a transmitter to wirelessly send the audio signals and the video image to the communications network.